

WOODS ROTARY MOWER

59HC-1

For use on IH "C" and "240"

29931
Rev. 6/29/2007

WOODS®
Tested. Proven. Unbeatable.

OPERATOR'S MANUAL

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Woods® dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Product Registration included with the Operator's Manual. The customer must sign the registration which certifies that all Dealer Check List items have been completed. The dealer is to return the prepaid postage portion to Woods, give one copy to the customer, and retain one copy. **Failure to complete and return this card does not diminish customer's warranty rights.**

TO THE OWNER:

Read this manual before operating your Woods equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Woods dealer has trained mechanics, genuine Woods service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Woods service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase:** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING**, and **DANGER** are used in conjunction with the Safety-Alert Symbol (a triangle with an exclamation mark) to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

**IMPORTANT
or NOTICE**

Indicates that failure to observe can cause damage to equipment.

NOTE

Indicates helpful information.

WOODS®

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GANNON®
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2 Introduction

Gen'l (Rev. 2/5/2007)

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GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your mower. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.


The illustrations and data used in this manual were current at the time of printing but, due to possible inline production changes, your mower may vary slightly in detail. We reserve the right to redesign and change the cutters as may be necessary without notification.

Throughout this manual, references are made to right and left directions. These are determined by standing behind the mower facing the direction of forward travel.



¡LEA EL INSTRUCTIVO!

Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.



This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

It has been said, "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

TRAINING

- **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**
- **If you do not understand any part of this manual and need assistance, see your dealer.**
- **Know your controls and how to stop engine and attachment quickly in an emergency.**
- **Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.**
- **Never allow children or untrained persons to operate equipment.**

PREPARATION

- **Check that all hardware is properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.**
- **Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.**
- **Make sure attachment is properly secured, adjusted, and in good operating condition.**
- **Remove accumulated debris from this equipment, power unit, and engine to avoid fire hazard.**

- **Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)**
- **Make sure shields and guards are properly installed and in good condition. Replace if damaged.**
- **Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.**

OPERATION

- **You may not be able to stop the tractor safely if the clutch or brake pedal mechanisms are improperly adjusted, allowing them to contact mower components.**
- **When the mower lift stops are installed as instructed in this manual, properly adjusted clutch and brake pedal mechanisms will not contact mower components. You should frequently check that the tractor clutch and brake pedal mechanisms are in adjustment.**
- **If the clutch or brake pedal mechanisms can contact mower components, do not put mower into service until properly adjusted.**
- **Do not put mower into service unless discharge chute is installed and in good condition. Replace if damaged.**
- **Keep bystanders away from equipment.**
- **Do not operate or transport equipment while under the influence of alcohol or drugs.**
- **Never direct discharge toward people, animals, or property.**
- **Operate only in daylight or good artificial light.**
- **Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.**
- **Always comply with all state and local lighting and marking requirements.**
- **Never allow riders on power unit or attachment.**
- **Always sit in power unit seat when operating controls or starting engine. Place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.**
- **Look down and to the rear and make sure area is clear before operating in reverse.**
- **Do not operate or transport on steep slopes.**



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

TRANSPORTATION

- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate PTO during transport.
- Watch for hidden hazards on the terrain.
- Do not operate or transport on steep slopes.
- Do not operate auxiliary hydraulics during transport.
- Do not operate or transport equipment while under the influence of alcohol or drugs.

MAINTENANCE

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body under-

neath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.

- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Make certain all movement of equipment components has stopped before approaching for service.
- Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.
- Do not handle blades with bare hands. Careless or improper handling may result in serious injury.
- Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.
- Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Make sure shields and guards are properly installed and in good condition. Replace if damaged.
- Wear gloves when installing belt. Be careful to prevent fingers from being caught between belt and pulley.

STORAGE

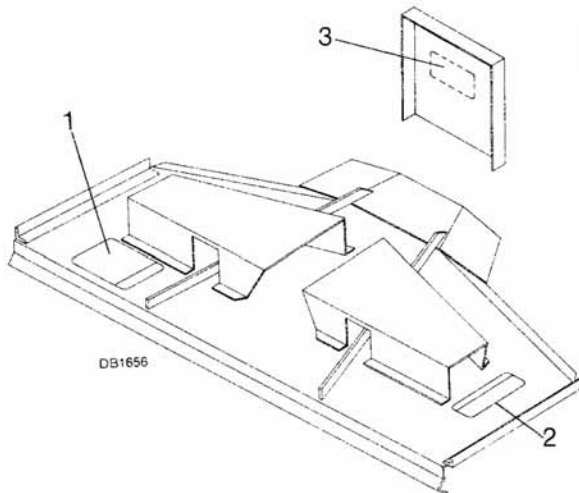
- Block equipment securely for storage.
- Keep children and bystanders away from storage area.



SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
Replace Immediately If Damaged!



3 - SERIAL NUMBER PLATE

BE CAREFUL!

Use a clean, damp cloth to clean safety decals.

Avoid spraying too close to decals when using a pressure washer; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.

Replacement safety decals can be ordered free from your Woods dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

1 - 25505



WARNING

TO AVOID SERIOUS INJURY OR DEATH,

- Read Operator's Manual and follow all safety precautions. (Contact dealer for manuals.)
- Keep shields and guards in place. Keep clear of drives and belts.
- Lower implement, stop engine and remove key before dismounting.
- Block up implement and remove key before working underneath.
- Do not operate mower in vicinity of other persons. Never allow riders.
- Know how to stop tractor and equipment quickly in an emergency.
- Clear mowing area of debris.
- Never allow children or unqualified persons to operate equipment.
- Be careful on uneven terrain. Decrease speed when turning.
- Do not operate in transport position.

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DANGER



ROTATING BLADES AND THROWN OBJECTS

- Do not put hands or feet under or into mower when engine is running.
- Before mowing, clear area of objects that may be thrown by blade.
- Keep bystanders away.
- Keep discharge chute and guards in place and in good condition.

BLADE CONTACT OR THROWN OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH.

53425-B

OPERATION

WARNING

- Do not allow children or unqualified persons to operate equipment.
- Keep bystanders away from equipment while it is in operation.

CAUTION

- Stop mower and tractor immediately upon striking an obstruction. Turn off engine, remove key, inspect and repair any damage before resuming operation.
- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hands, hearing and head.

MOWING GRASS

Woods model **59**, **L59**, and **L306** series mowers are equipped with suction-type blades which make them ideal for finish mowing large areas of lawn. The machine should be run level when mowing, and the uncut area should be kept to the left side (right side on left-handed machine). This prevents a small windrow that might otherwise occur.

Streaking

With certain types of grass and under certain seasonal conditions, the front caster wheels may roll the grass down enough that it will not come all the way back up and will not be cut as short as the surrounding area. This may appear to be a streak left by the spindle, but it is not. The only solution, under these conditions, is to carry the weight of the machine on the lift chains with the caster wheels adjusted up so they carry the weight when riding a high ridge or high spot.

TRACTOR OPERATING INSTRUCTIONS

Operate the tractor at full governed rpm when doing normal mowing. If the forward speed is too high, a lower gear can be used.

Height Adjustment (Without Casters)

The mower is raised or lowered and the mowing height is maintained by the tractor hydraulic system.

Set the hydraulic control lever stop for the desired mowing level. Adjust the side skids so that they just

clear the ground. The side skids will minimize scalping by lifting the mower over bumps.

Height Adjustment (With Casters)

Adjustment for **59** and **L59** casters is made by placing axle in upper and lower holes in the yoke, or by moving spacers on top or bottom of the pivot shaft. On **L306**, adjust by using various holes in the caster arm. Adjust side skids 1/2" above the ground.

Raise mower off the ground when backing and turning at the same time.

Mower Attitude

Position front of mower level with or slightly below the rear to provide closer cutting. Mowing with the front end higher will produce ragged cuts with a scalloped look, excessive shredding, and will require extra power.

Attitude Adjustment (Figure 1)

For best mowing results, dimension "A" should not be more than 1/2" higher, and never lower, than dimension "B".

Dimension "B" is set by adjusting casters, gauge wheels or lift chains.

Dimension "A" is set by raising or lowering push channel arms in idler bracket.

NOTICE

- Any adjustment to either dimension "A" or "B" will require adjustment to the other.

Check cutting height and attitude by placing a straight edge along the outside edge of the mower frame as shown in Figure 3.

Measure from the bottom edge of the straight edge at the front and rear at least 32" apart. The front measurement should be approximately 1/2" lower than the rear.

To determine cutting height, it is necessary to subtract the distance the blade is below mower frame from the front measurement. On **L59**, the blade is 4-5/8" below the mower frame. On the **L306**, it is 4-7/8" below.

When checking cutting height, be sure to take measurements on both sides of the mower. Be sure the mower is level from side to side using these measurements.

When changes are made to cutting height or attitude, be sure to check belt alignment and tension.

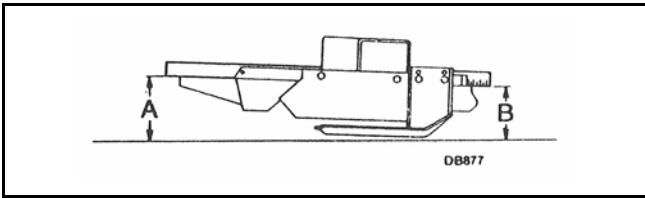


Figure 1. Attitude Adjustment

NOTICE

- Improper belt alignment or tension can cause premature belt failure.

Lubrication

Grease caster pivot and wheel every 8 hours of operation.

There are grease fittings on each of the three blade spindles, which are accessible without shield removal. Grease every 24 hours of operation with a good grade light to medium grease gun.

NOTICE

- Do not over grease spindles. Excess grease could be transferred to the belt and cause slippage or premature failure.

Belt Tension (Figure 2)

Set belt tension using a spring scale or other force measuring device. Remove left belt shield. Attach scale between center and left pulley. Apply between 3 and 4 pounds of force. Belt deflection should measure 5/16" for normal conditions.

Tension may be increased if necessary to prevent belt from slipping in heavy mowing conditions. When checking tension without a force measuring device, the belt, when properly set, should feel very tight.

Cycle belt through at least two revolutions after any adjustment before checking tension. These belts are very strong and need to be adjusted very tight. Belts are more likely to be damaged by excessive slippage than from being overtightened.

NOTICE

- Belt must not rub deck or crosswise support.

Tension adjustments may be made by moving the idler pulleys up or down.

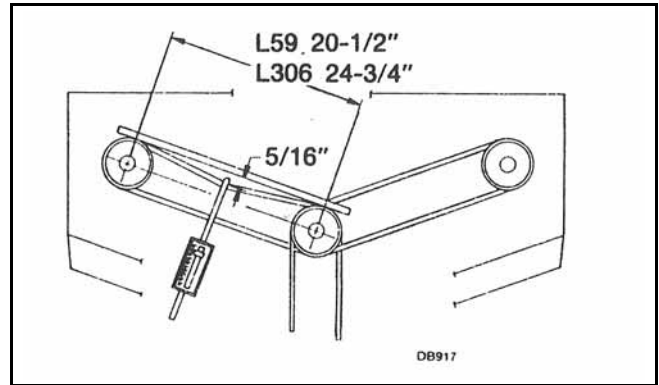


Figure 2. Proper Belt Tension

NOTICE

- Alignment must be rechecked if it is necessary to move idler pulleys to get proper belt tension.
- Tension on a new belt should be readjusted every half hour for the first two hours and then checked every 8 hours of operation.

Side Shield & Discharge Chute

Side shield and discharge chute are provided for discharge end of mower (left end on white frames and right end on yellow frames). Use side shield for normal mowing and in areas where other persons may be present. Use discharge chute for very heavy mowing conditions.

NOTICE

- Always use either side shield or discharge chute.

Optional Equipment

Optional equipment available for this equipment includes casters for cutting height control, front roller to minimize scalping, low and extra suction blades, and a leaf mulcher. Low suction blades are for sandy areas where abrasive action could cause excessive blade wear. Extra suction blades are designed to lift up fragile downed grasses for better cutting results and are also recommended for use with Woods lawn vacuum and leaf mulcher attachments.

Mower Spindle Assemblies

Mower spindle assemblies are equipped with two tapered roller bearings. Bearing adjustment is held by a roll pin. Adjustment should not be necessary. Repair requires special skills and tools. You may save time and money by using a new spindle assembly.

Blade Servicing

Keep blades sharp for a good mowing job. Sharpen both ends of the blade the same amount to maintain balance. Do not sharpen blade to a razor edge, but leave a 1/16" blunt edge. Do not sharpen back side of blade. When replacing blades, do not substitute any bolt for the special Nylok blade bolt. The Nylok bolt is self-locking, meeting the non-loosening requirements for this application.

NOTICE

■ On mowers with white frames, the blade bolts have left hand threads.

Both **59** and **306** mowers use cup washers under blades. These washers will burn and lose their clamping force if excess slippage occurs. Inspect and replace as necessary. The **L306** mower incorporates a friction clutch disc which is designed to slip only when striking a solid object. Should blade slip during mowing, tighten by adding thin shim washers over bushing, between top cup washer and blade, until blades will hold desired load. Blade bolts should be torqued to 170 lbs-ft.

HOW TO SOLVE BELT PROBLEMS

Assemble as shown on mower decal. If not installed correctly, more twist will result than is allowable.

Belt whip is caused by belt misalignment unless mower is driven by a rough-running or 2-cylinder engine.

Proper position of **L59** and **L306**: Adjust mower forward and back to such a position that the rear take-up idlers are near the bottom of their slots when the belt lines up with the proper groove in the center pulley and is tight. Never run the idlers high in the slots as this will cause misalignment.

It is assumed that the mower is adjusted to run approximately level. If the front of the mower is down, the idlers will have to be raised. If the back of the mower is down, the idlers will have to be down further. Belts must be in proper alignment with sheave grooves as shown in Figure 4 and Figure 5.

PTO pulleys must be moved in or out to cause the belt to be in alignment with the idlers.

Belt Tension: Run belts very tight. Present belt designs are much stronger than we are accustomed to and will stand more tension. Slipping will heat and ruin a belt but tension is not harmful. You can minimize the amount of change in belt length as mower is raised and

lowered by keeping the rear idlers adjusted to a low position.

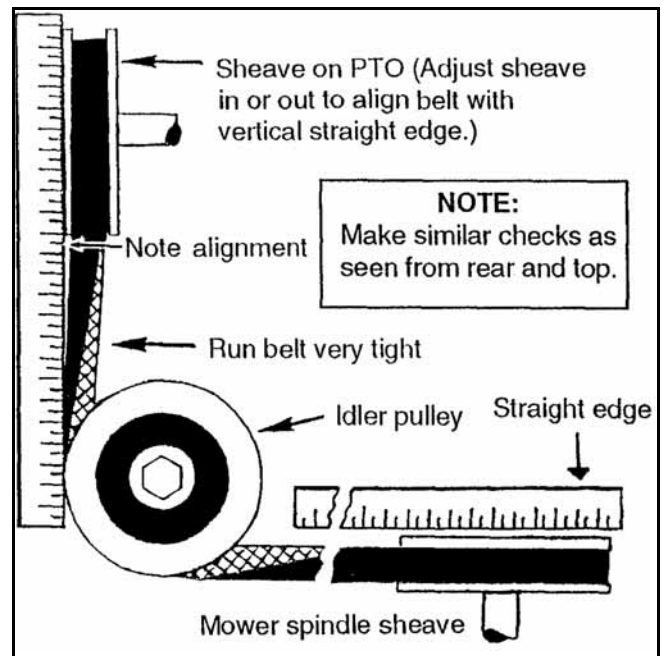


Figure 3. Use of Straight Edge (Side View)

How to Align a Twisted Belt

Right: Inside edge of belt are approximately lined up with the sheave.

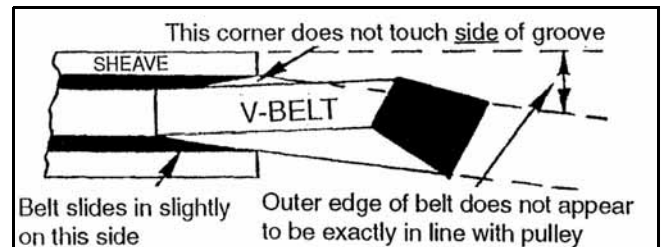


Figure 4.

Wrong: Outer edge of belt appears to be in line.

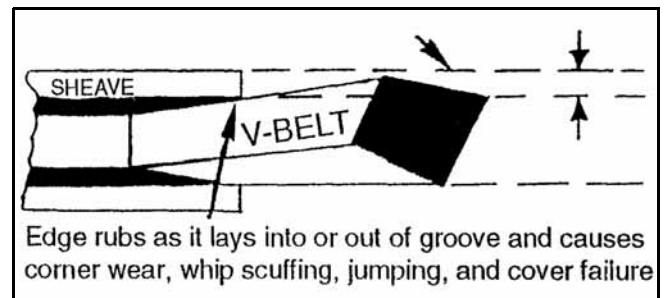


Figure 5.

ASSEMBLY

On tractors with fast hitch, complete fast hitch must be removed. Bolt lug (17) to sides of transmission housing using bolts removed from tractor, and bolt idler bracket and left mounting bracket to bottom hole of lug (17). Use 5/8 ID x 1-3/8 x 5/8 thick flat washer (65) between tractor and idler bracket and left mounting bracket.

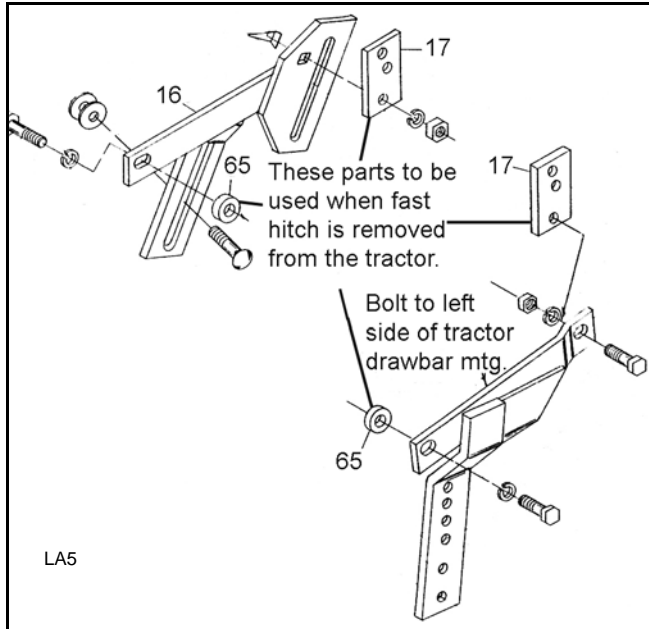


Figure 6. Tractors with Fast Hitch

Idler Bracket Assembly (Figure 7)

Attach the front end of the idler bracket (16) to right side of the tractor drawbar support bracket front pivot hole.

Remove the existing bolt and replace with a 5/8 x 2-1/4 bolt (59), and lock washer (63). Adjust drawbar bracket so upper rear hole in bracket bolts to upper hole in differential case.

Bolt rear end of idler bracket (16) to center hole in drawbar bracket using 5/8 x 1-1/2 carriage bolt (60), lock washer (63), and hex nut (62). Install the large flat idler pulley (9) to the long front vertical slot using a 5/8 x 2-1/2 carriage bolt (61), with four flat washers (64) installed between the idler and bracket. Secure with lock washer (63), and hex nut (62).

Install 5/8 NC x 3-1/2 hex head cap screws (67) through V-idler (13). Place two 5/8 flat washers (64) and special 5/8 washer (15) over bolt. Install assembly in rear slot in idler bracket (16). Secure with 5/8 flat washer (64) and hex nut (62).

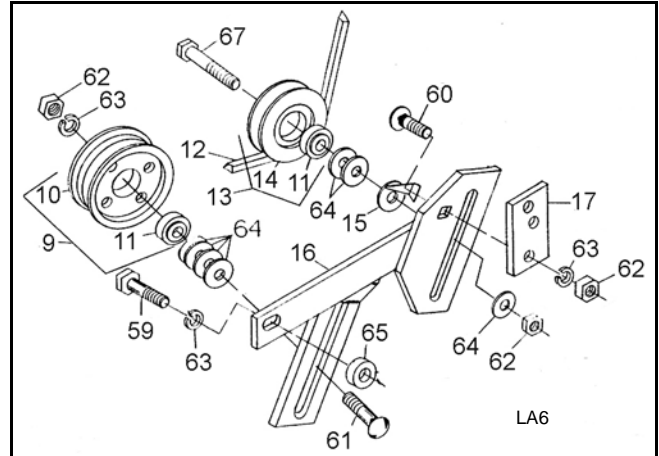


Figure 7. Idler Bracket Assembly

Left Mounting Bracket (See page 16)

Attach left mounting bracket (23) to left side of drawbar support bracket in the same manner as the idler bracket was attached to the right side.

NOTE: On "240" utility, it is necessary to cut 3-1/2" off the bottom of (8) and (23).

Right Mounting Bracket

Remove the "U" bolt holding the right fender in place and using the right fender as a top clamp plate, bolt the right mounting bracket (8) to the bottom of the axle with 1/2 x 5" bolts (54). Secure with lock washer (56) and hex nut (55). Allow approximately 26-1/2" between mounting bracket push arms, and tighten all bolts. When fender is removed from tractor, use right top axle clamp (25) in its place.

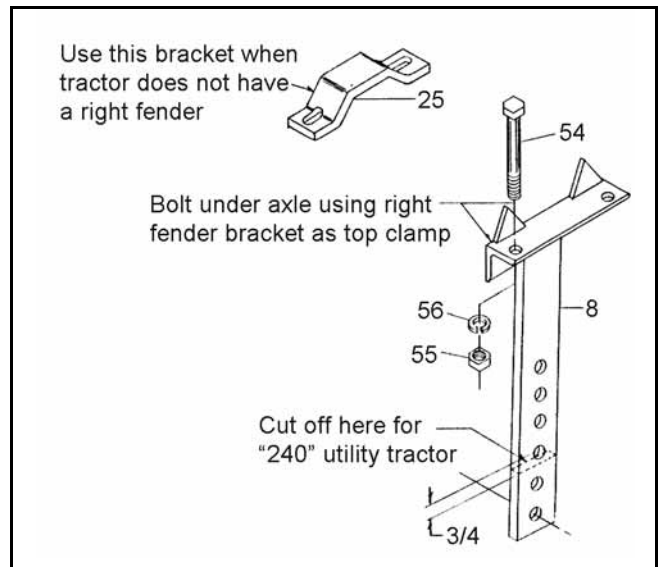


Figure 8. Right Mounting Bracket

Slide mower under tractor and pin the push arms to the inside of the mounting brackets using 5/8 x 1-3/4 clevis pin (66) and safety pin (48).

Shield Attaching Bracket

Remove belt pulley and install shield bracket (21) to upper bolt on end seal cap of belt pulley housing, with short flange pointing outward.

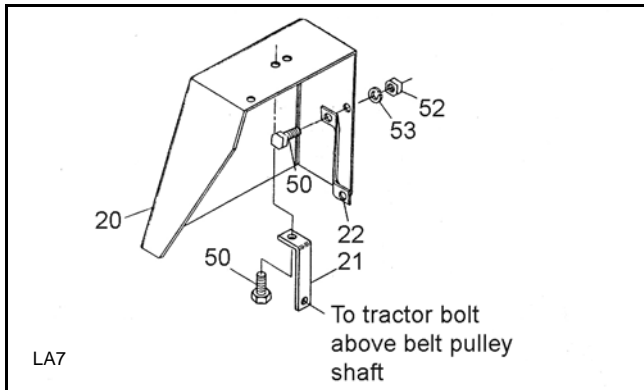


Figure 9. Shield Attaching Bracket

Drive Sheave

Remove paint from bore of large drive sheave and attach it to the tractor belt pulley shaft using splined bushing (19) provided, with flange on the outside. Position so the face of the bushing is about flush with the end of the shaft and torque bushing bolts evenly to 12 lbs-ft alternating back and forth at least six times.

Belt Assembly & Adjustment

Put the belt on the drive according to the pictures and instructions on page 12.

NOTE: Make major adjustments by sliding the mower fore and aft using the five holes in the end of the channel arms as required. Make minor adjustments with idlers but keep them slightly above being in line with the groove in which the belt runs on the mower center sheave.

Upper Belt Shield

Bolt the angle bracket (22) to the back of the PTO shield support bracket using the existing right hand bolt. Install so the bracket angles rearward and outward.

Attach the shield (20) to the two attaching angles (21 & 22) using 3/8 NC x 3/4 hex head cap screw (50) and secure with lock washer (53) and hex nut (52).

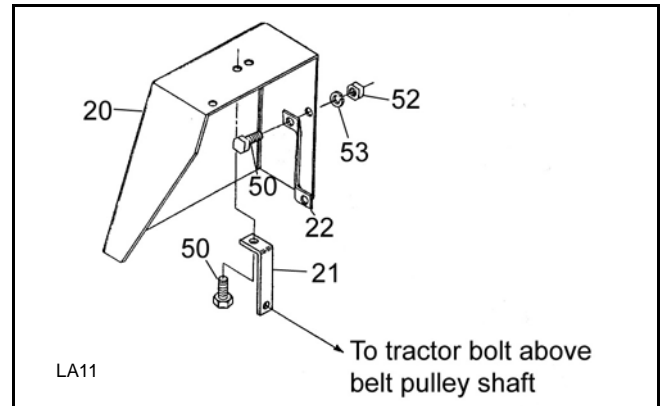


Figure 10. Upper Belt Shield

Lower Belt Shield

Install lower belt shield (26) over bolt holding rear V-idler to idler bracket. Secure with a 5/8" flat washer on each side and a 5/8" nut. See page 16.

Lift Assembly

Attach lift arm (6) to rockshaft on right side of tractor with large hole to rear. Attach lower lift bar (5) to lift arm (6) using 5/8 x 1" bolt, flat washer and spacer bushing (7). Attach lift chains to keyholes in mower lift lugs and secure with plastic caplug (4). Hook eye bolt through top of chain and into cross plate of lift bar.

Raise the mower on the tractor hydraulic system slightly and adjust eye bolts to carry mower level. Adjust so mower does not hit tractor or tires when fully raised.

NOTE: On "240" with rear rockshaft, it is necessary to use manual lift. See page 24.

Casters

If casters are used see page 19 and page 20.

Manual Lift Assembly

See page 24 for manual lift assembly installation instructions.

Belt Assembly and Adjustment

Models used on: 59C, L59, and L306 model AC52, AC54, BMC, B-25, D, D10-D12, F, F10, H3, GM2, GM4, JD85, JD95, JM, K17, K22, K28, KD, KL, K210, K260, MF, M25, S, S55, VC, U, etc.

First put belt on the bottom groove, right hand side of the center sheave. Then thread it to left, around the left hand sheave.

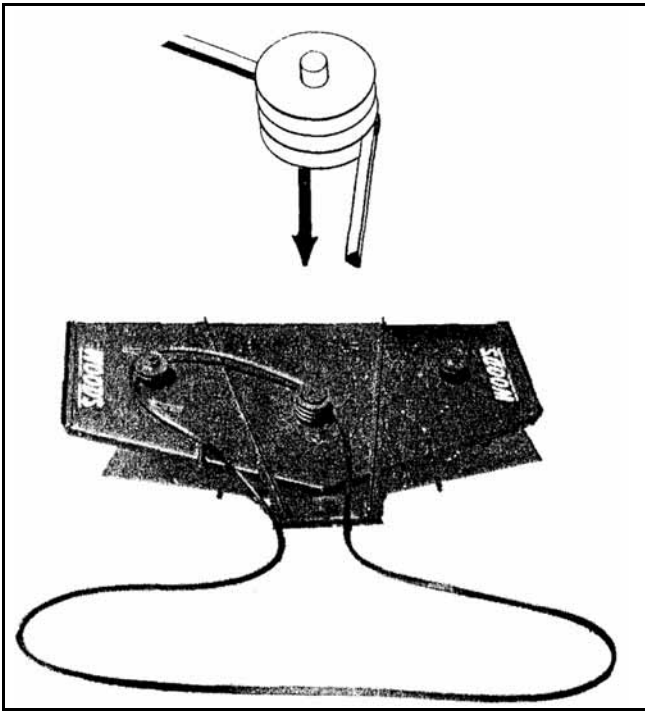


Figure 6.

Bring the belt back across the center sheave in the center groove over to the right outside sheave.

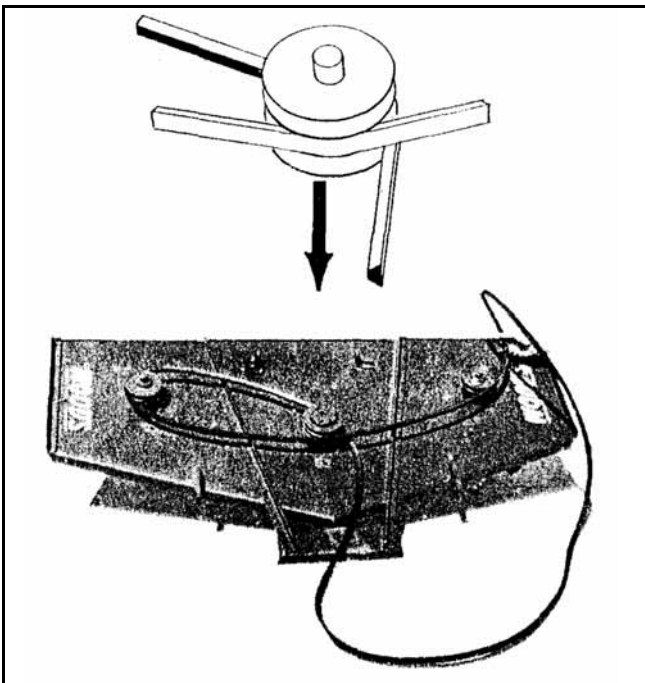


Figure 7.

Then thread it back across the front of the center sheave in the top groove.

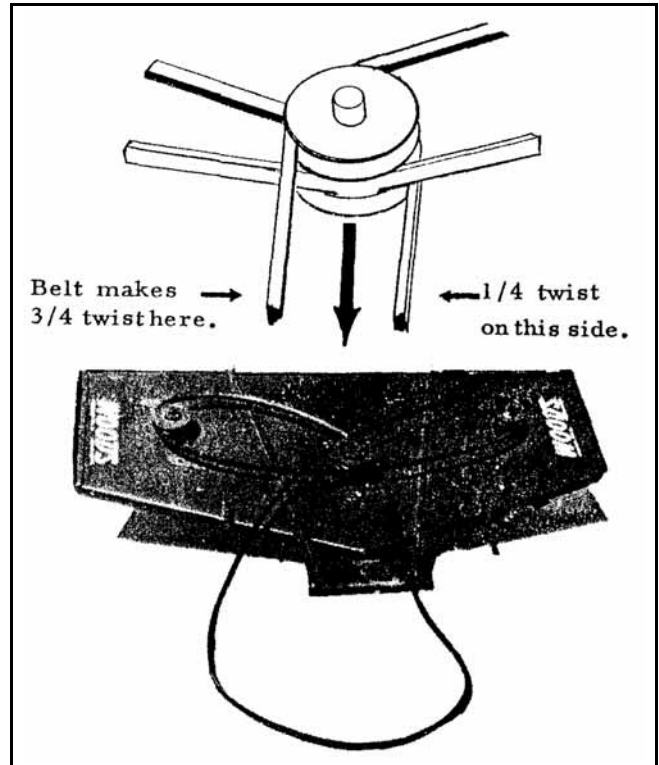


Figure 8.

Proper Twist: The belt then follows with a 3/4 twist back under the left V-idler, up over the drive sheave and back down under the right idler pulley. This will leave a 1/4 twist in the section of belt extending from the right V-idler to lower groove of the center mower sheave.

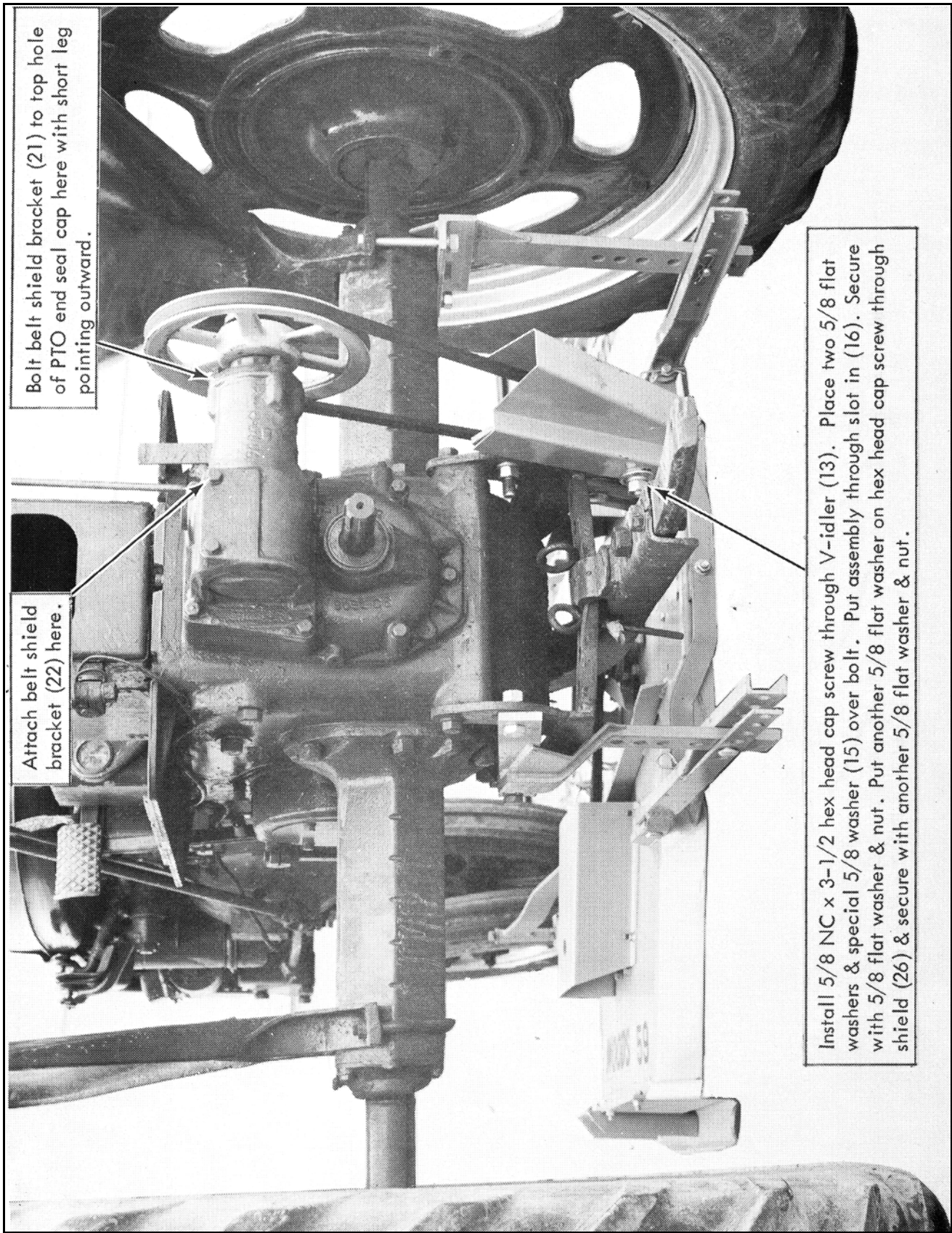
Adjust the mower to proper cutting height. The front of the mower should be slightly lower than the rear of the best cutting and least power requirement.

Idler Adjustment: Make minor belt adjustment with idlers but keep left idler about 1" above being in line with the groove in which the belt runs on the center sheave of the mower and right idler about 1" below. Move mower fore and aft for major adjustments. On L306K210, K260, S, and F10, use belt take-up idlers on mower deck for major adjustment.

LEAF MULCHER (OPTIONAL)

1. Turn the mower upside down on saw horses. If mower has a bolt-on front shield, adjust shield all the way down in long slots. Remove side shields. Leave side skids on. If optional front roller has been installed, it must be removed.
2. On mowers with bent-down front frame, remove center baffle and drill three 7/16 diameter holes (two on 59's) in front of mower at the diameter shown on drawing.

3. Attach slotted angles (2) or (3 & 4) to leaf mulcher as shown on drawing.
4. Place leaf mulcher over blades on mower. Attach angles (2) or (3 & 4) and mower side shield to side frame angle on mower. All **59** mowers and **L306** mowers with bolt-on front shield will use front shield hole to attach angles (2) or (3 & 4). **L306** mowers with bent-down front frame will use 2nd hole behind skid to attach angles (3 & 4). Bolt side shields to mower using 3/8 flat washers for spacers.
5. On mowers with bolt-on front shield, bolt front of leaf mulcher to bottom of slots in front shield with 3/8 x 1" bolts and flat washers. On mowers with bent-down front frame, bolt leaf mulcher to inside of mower in holes drilled in front frame using 3/8 x 1" bolts on **L306**, and on **L59**'s use 3/8 x 1-1/2 bolts and 5/8 long pipe spacers between leaf mulcher and mower. On some mowers where 5/8" pipe may be too long, substitute 3/8 flat washers.
6. Drill 7/16 holes in rear of mower deck through holes in leaf mulcher rear plates and bolt rear of leaf mulcher to deck using 3/8 x 1" bolts.
7. Tighten all bolts securely. Turn each blade individually inside the leaf mulcher to see that it clears the leaf mulcher rings. If necessary, the rings may be re-shaped with a hammer to clear the leaf mulcher rings.



Bolt belt shield bracket (21) to top hole of PTO end seal cap here with short leg pointing outward.

Attach belt shield bracket (22) here.

Install 5/8 NC x 3-1/2 hex head cap screw through V-idler (13). Place two 5/8 flat washers & special 5/8 washer (15) over bolt. Put assembly through slot in (16). Secure with 5/8 flat washer & nut. Put another 5/8 flat washer on hex head cap screw through shield (26) & secure with another 5/8 flat washer & nut.

Figure 9. 59-HC Idler and Mounting Bracket Assembly

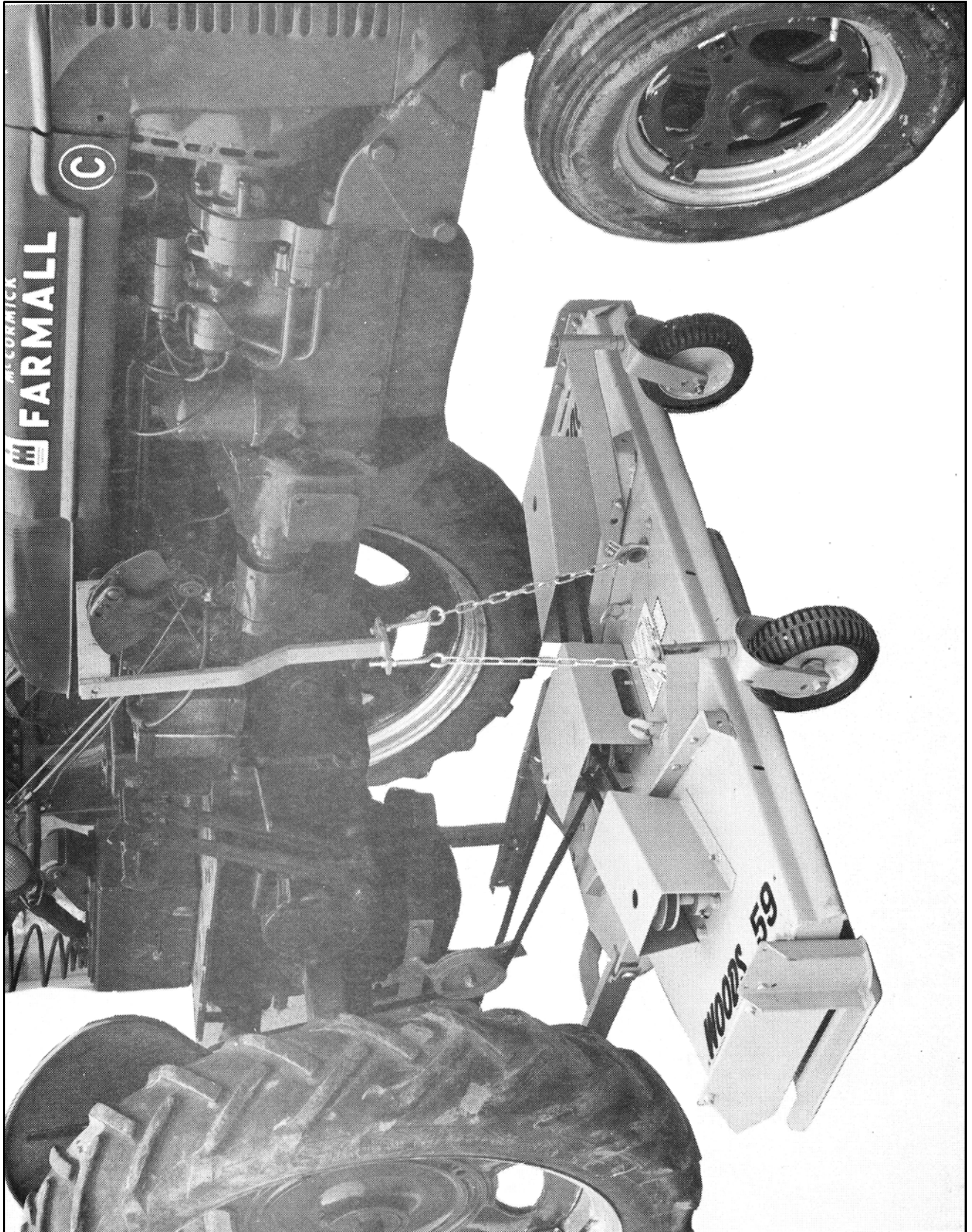
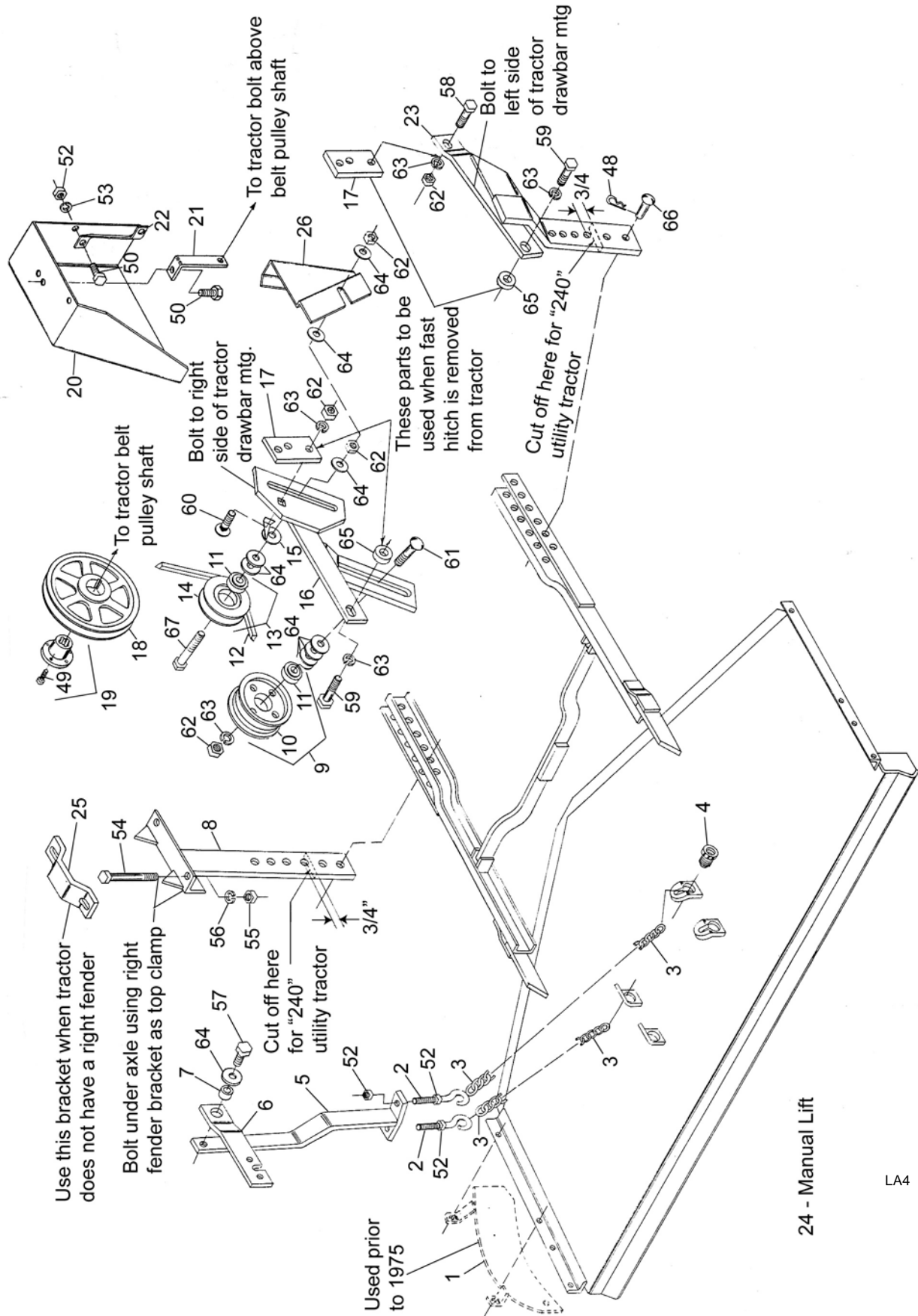


Figure 10. 59-HC Lift and Caster Assembly

59HC MOUNTING FRAME ASSEMBLY



24 - Manual Lift

LA4

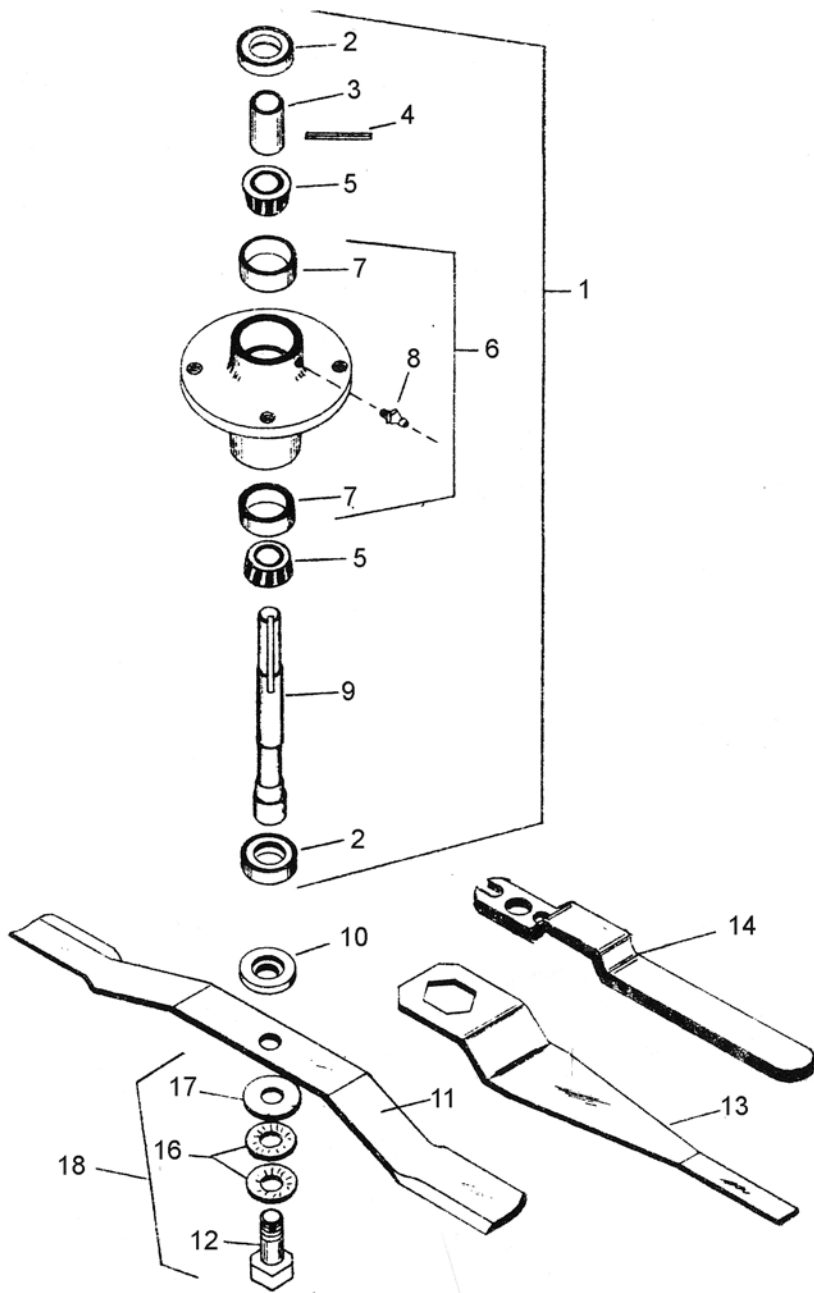
16 Parts

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59-HC MOUNTING FRAME ASSEMBLY

| REF | PART | QTY | DESCRIPTION | REF | PART | QTY | DESCRIPTION |
|-----|-------|-----|--|-----|---------|-----|-----------------------------------|
| | | | | | | | HARDWARE |
| 1 | ----- | 1 | Diverter baffle (used on earlier models) | 48 | 2688 * | | 1/8 Safety pin |
| 2 | 4153 | 2 | Eye bolt (3/8 NC x 5) | 49 | 14562 * | | 5/16 NC x 1 HHCS GR5 |
| 3 | 4215 | 2 | 10 Link chain | 50 | 1686 * | | 3/8 NC x 3/4 HHCS GR5 |
| 4 | 18336 | 2 | Plastic K plug | 51 | 839 * | | 3/8 NC x 1 HHCS GR5 |
| 5 | 3661 | 1 | Lower lift arm | 52 | 835 * | | 3/8 NC Hex nut |
| 6 | 3663 | 1 | Lift arm | 53 | 838 * | | 3/8 Lock washer |
| 7 | 484 | 1 | Sleeve | 54 | 23479 * | | 1/2 NC x 5 HHCS GR5 |
| 8 | 10636 | 1 | Right mounting bracket assembly | 55 | 1093 * | | 1/2 NC Hex nut |
| 9 | 7452 | 1 | Flat idler 6-1/4 OD with bearing | 56 | 855 * | | 1/2 Lock washer |
| 10 | 13098 | 1 | Flat idler 6-1/4 OD less bearing | 57 | 1739 * | | 5/8 NC x 1 HHCS GR5 |
| 11 | 6095 | 2 | Bearing for items 4336 and 7452 | 58 | 4548 * | | 5/8 NC x 1-3/4 HHCS GR5 |
| 12 | 3652 | 1 | V-belt, special | 59 | 12274 * | | 5/8 NC x 2-1/4 HHCS GR5 |
| 13 | 4336 | 1 | Idler with bearing | 60 | 5607 * | | 5/8 NC x 1-1/2 Carriage bolt |
| 14 | 4335 | 1 | Idler without bearing | 61 | 5836 * | | 5/8 NC x 2-1/2 Carriage bolt |
| 15 | 10648 | 1 | Special 5/8" washer (with welded on clip) | 62 | 230 * | | 5/8 NC Hex nut |
| 16 | 10645 | 1 | Idler bracket assembly | 63 | 1286 * | | 5/8 Lock washer |
| 17 | 13857 | 1 | Quick hitch replacement lug | 64 | 692 * | | 5/8 Flat washer |
| 18 | 1481 | 1 | Sheave less bushing | 65 | 13258 | | 5/8 x 1-3/8 x 5/8 Flat washer |
| 19 | 3651 | 1 | Bushing with bolts | 66 | 410 | | 5/8 x 1-3/4 Clevis pin |
| 20 | 25550 | 1 | Shield | 67 | 23141 * | | 5/8 NC x 3-1/2 HHCS GR5 |
| 21 | 10659 | 1 | Shield bracket | | | * | Standard hardware, obtain locally |
| 22 | 1635 | 1 | Shield bracket | | | | |
| 23 | 10640 | 1 | Left mounting bracket | | | | |
| 24 | ----- | 1 | Manual lift (see page 24) | | | | |
| 25 | 23901 | 1 | Right top axle clamp | | | | |
| 26 | 25558 | 1 | Rear lower belt shield | | | | |

SPINDLE ASSEMBLY



| REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|--|
| 1 | 4116 | 1 | Spindle |
| 2 | 5089 | 2 | Seal |
| 3 | 4114 | 1 | Sleeve |
| 4 | 4115 | 1 | Pin |
| 5 | 4107 | 2 | Bearing cone |
| 6 | 4117 | 1 | Housing with cups |
| 7 | 4106 | 2 | Bearing cup |
| 8 | 1972 | 1 | Grease fitting |
| 9 | 4105 | 1 | Spindle shaft |
| 10 | 4110 | 1 | Shoulder washer |
| 11 | 12170KT | 1 | 16-13/16 Medium suction blade (std for RM48) -or- |
| 11 | 26548KT | 1 | 16-13/16 Low suction blade (optional for RM48) -or- |
| 11 | 6950KT | 1 | 20-1/4 Medium suction blade (std for 59) -or- |
| 11 | 26559KT | 1 | 20-1/4 Low suction blade (optional for 59) |
| 12 | 10658 | 1 | 5/8 NC x 1-1/2 Nylok bolt |
| 13 | 3490 | 1 | Blade bolt wrench (used prior to 1964) |
| 14 | 2974 | 1 | Spindle lock wrench |
| 16 | 10635 | 2 | 5/8 Cup washer |
| 17 | 692 | 1 | 5/8 Flat washer |
| 18 | 1015825 | 1 | Blade bolt and washers complete (not shown) |

NOTE: When difficulty is experienced with a mower spindle, time and trouble will be saved by buying a complete new assembly.

*For maximum suction for difficult mowing.

**For use in sandy areas or where high abrasive wear occurs on fin of standard blade.

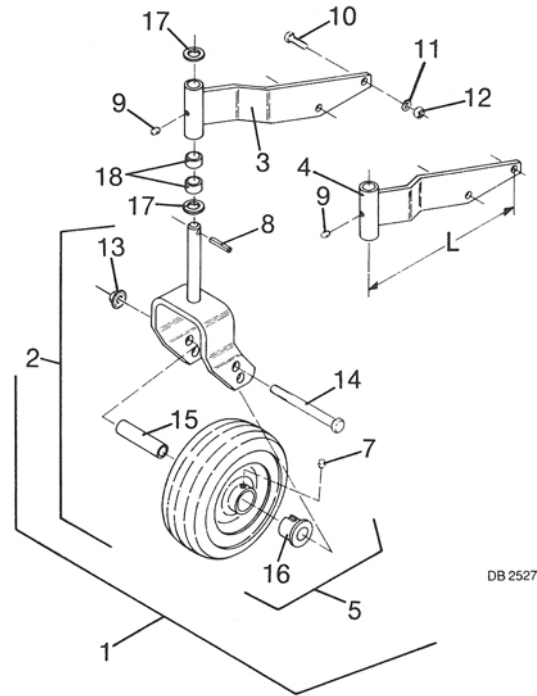
NOTE: Repair shaft (9) and repair sleeve (3) do not have a hole drilled in them for pin (4). After new parts have been assembled and proper bearing adjustment obtained, drill a 3/16 diameter hole through sleeve and shaft. Drive in Sel-lock pin to hold proper bearing adjustment.

18 Parts

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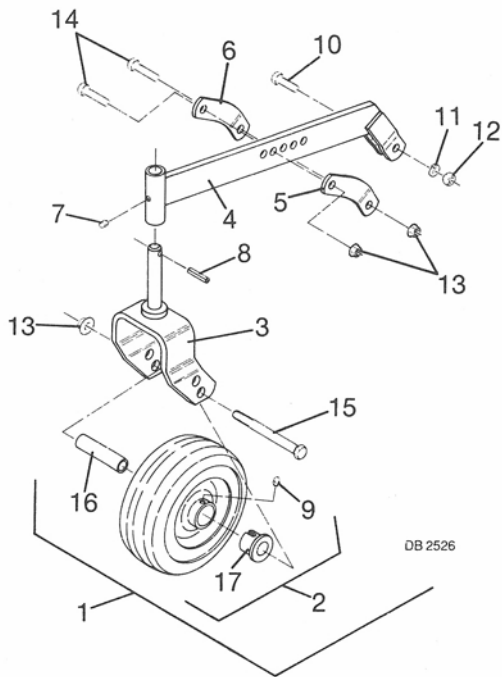
59 & L59 CASTERS

| REF | PART | QTY | DESCRIPTION |
|-----|-----------|-----|--|
| 1 | 29750 | 1 | 59 & L59 Right & left caster bundle |
| 2 | 12243 | 1 | Caster yoke (includes bolt, nut & 2 sleeves) |
| 3 | 29746 (a) | 1 | Right caster arm asy, 13-5/32" long -or- |
| 3 | 6761 (a) | 1 | Right caster arm 15-5/32" long |
| 4 | 29747 (a) | 1 | Left caster arm asy, 13-5/32" long -or- |
| 4 | 18424 (a) | 1 | Left caster arm, 16-5/32" long |
| 5 | 19703 | 1 | 8" HD Caster wheel with sleeve |
| 7 | ----- | * | Straight 1/4 self-tapping grease fitting (for steel wheel) -or- |
| 7 | 195 | * | Straight 1/8P thread grease fitting (for polyethylene wheel) |
| 8 | 21020 | 1 | 1/4 x 1-1/4 Spirol pin -or- |
| 8 | 1285 | * | 1/4 x 1-1/2 Cotter pin |
| 9 | 12296 | * | 1/4 - 28 Straight grease fitting, 15/32" long |
| 10 | 12169 | * | 2 3/8 NC x 1-1/4 HHCS GR5 |
| 11 | 838 | * | 2 3/8 Standard lock washer |
| 12 | 835 | * | 2 3/8 NC Hex nut, plated |
| 13 | 765 | * | 1 1/2 NC Hex lock nut |
| 14 | 23479 | 1 | 1/2 NC x 5 HHCS GR5 |
| 15 | 29368 (c) | 1 | 1/2 x 3/4 OD x 3-3/8 Sleeve -or- |
| 15 | 12242 (c) | 1 | 17 GA Wall x 5/8 OD x 3-3/8 tube |
| 16 | 29375 (b) | 2 | 3/4 Bore flanged bearing for 1-1/8 hole -or- |
| 16 | 4228 (b) | 2 | 5/8 Bore flanged bearing for 1-3/8 hole -or- |
| 16 | 2905 (b) | 2 | 5/8 Bore flanged bearing for 1-1/8 hole -or- |
| 16 | 65578 (b) | 2 | 3/4 Bore x 1.385 flanged wheel bearing with groove |
| 17 | 22240 | 2 | 3/4 x 1-3/16 x 10 GA Washer |
| 18 | 4181 | 2 | 25/32 x 1 x 1/2 Heat-treated sleeve |



- * Standard hardware, obtain locally
- a For proper caster arm identification, refer to dimension "L" as shown on drawing. The caster arms may be used on either side to obtain best fit.
- b Measure old bearing.
- c Measure outside diameter of old sleeve.

L306 CASTERS



A - CASTER BUNDLE

| REF | PART | QTY | DESCRIPTION |
|-----|-----------|-----|--|
| A | 24095 | - | L306 Caster assembly bundle |
| 1 | 13400 | 1 | Caster assembly |
| 2 | 15638 | 1 | 10" Caster wheel with sleeve |
| 3 | 23857 | 1 | Caster wheel yoke assembly |
| 4 | 13435 | 1 | Caster arm assembly |
| 5 | 13444 | 1 | Left caster adjustment bracket |
| 6 | 13444 | 1 | Right caster adjustment bracket |
| 7 | 1972 * | 1 | 1/7 - 28 Straight thread grease fitting, 15/32" L |
| 8 | 21020 | 1 | 1/4 x 1-1/4 Spirol pin -or- |
| 8 | 1285 * | 1 | 1/4 x 1-1/2 Cotter pin |
| 9 | ----- * | 1 | Straight 1/4 self-tapping grease fitting (for steel wheel) -or- |
| 9 | 195 * | 1 | Straight 1/8P thread grease fitting (for polyethylene wheel) |
| 10 | 976 * | 1 | 3/8 NC x 1-1/2 HHCS GR5 |
| 11 | 838 * | 1 | 3/8 Standard lock washer |
| 12 | 835 * | 1 | 3/8 NC Hex nut, plated |
| 13 | 11900 | 3 | 1/2 NC Flanged hex lock nut |
| 14 | 24576 | 2 | 1/2 NC x 1-3/4 HHCS GR5 |
| 15 | 23479 | 1 | 1/2 NC x 5 HHCS GR5 |
| 16 | 29368 (c) | 1 | 1/2 x 3/4 OD x 3-3/8 Sleeve, HT -or- |
| 16 | 12242 (c) | 1 | 17 GA Wall x 5/8 OD x 3-3/8 tube |
| 17 | 29375 (b) | 2 | 3/4 Bore flanged bearing for 1-1/8 hole -or- |
| 17 | 4228 (b) | 2 | 5/8 Bore flanged bearing for 1-3/8 hole -or- |
| 17 | 2905 (b) | 2 | 5/8 Bore flanged bearing for 1-1/8 hole -or- |
| 17 | 65578 (b) | 2 | 3/4 Bore x 1.385 flanged wheel bearing with groove |

* Standard hardware, obtain locally

a For proper caster arm identification, refer to dimension "L" as shown on drawing. The caster arms may be used on either side to obtain best fit.

b Measure old bearing.

c Measure outside diameter of old sleeve.

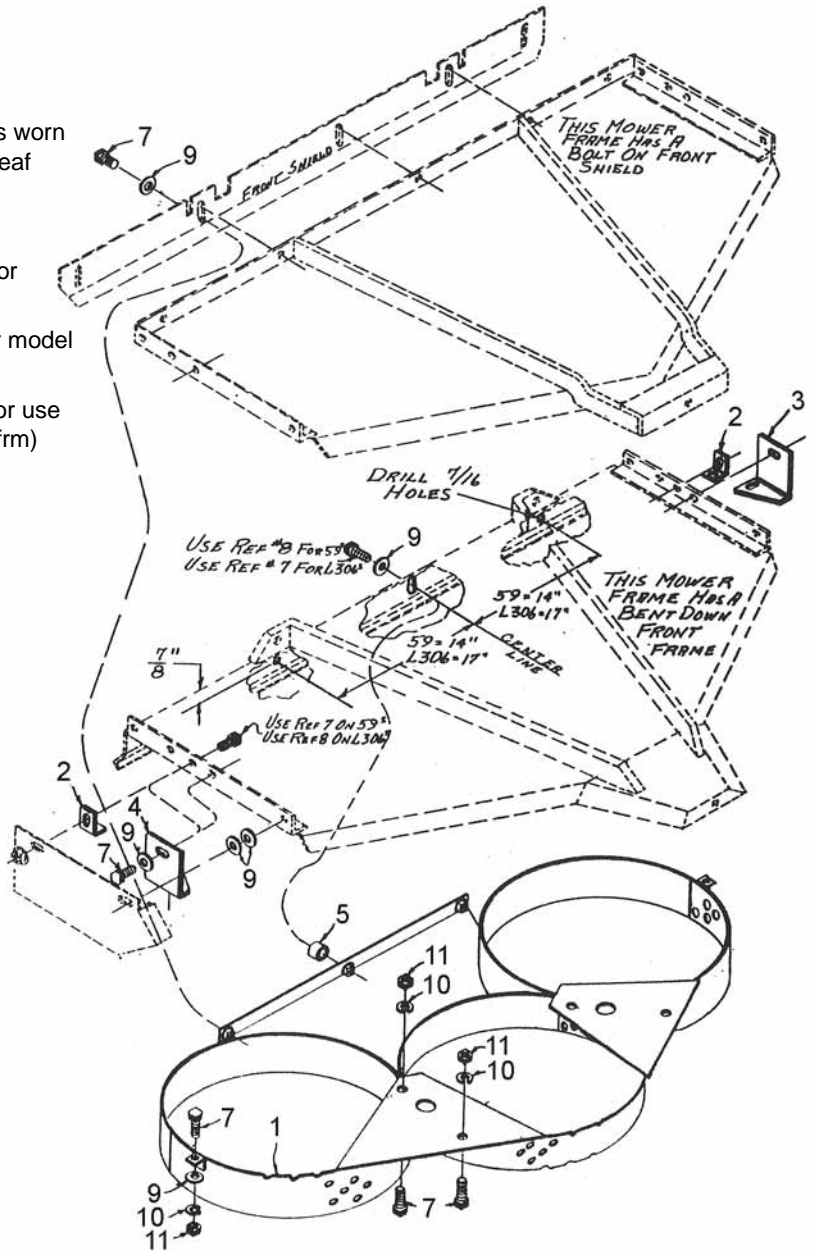
LEAF MULCHER

| REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|---|
| A | 7080 | 1 | Model 59 leaf mulcher -or- |
| A | 13482 | 1 | Model L306 leaf mulcher |
| 1 | ----- | 1 | Leaf weldment (if this part is worn out, order a complete new leaf mulcher) |
| 2 | 7076 | 1 | Angle lug (for model 59) |
| 3 | 13224 | 1 | Right attachment bracket (for model L306) |
| 4 | 13225 | 1 | Left attachment bracket (for model L306) |
| 5 | 23218 | 1 | 3/8 Scdl 40 pipe 5/8 long (for use only on 59 w/bent down frt frm) |
| 7 | 839 * | 1 | 3/8 NC x 1 HHCS GR5 |
| 8 | 25475 * | 1 | 3/8 NC x 1-1/2 HHCS GR5 |
| 9 | 565 * | 1 | 3/8 Flat washer |
| 10 | 838 * | 1 | 3/8 Lock washer |
| 11 | 835 * | 1 | 3/8 NC Hex nut |

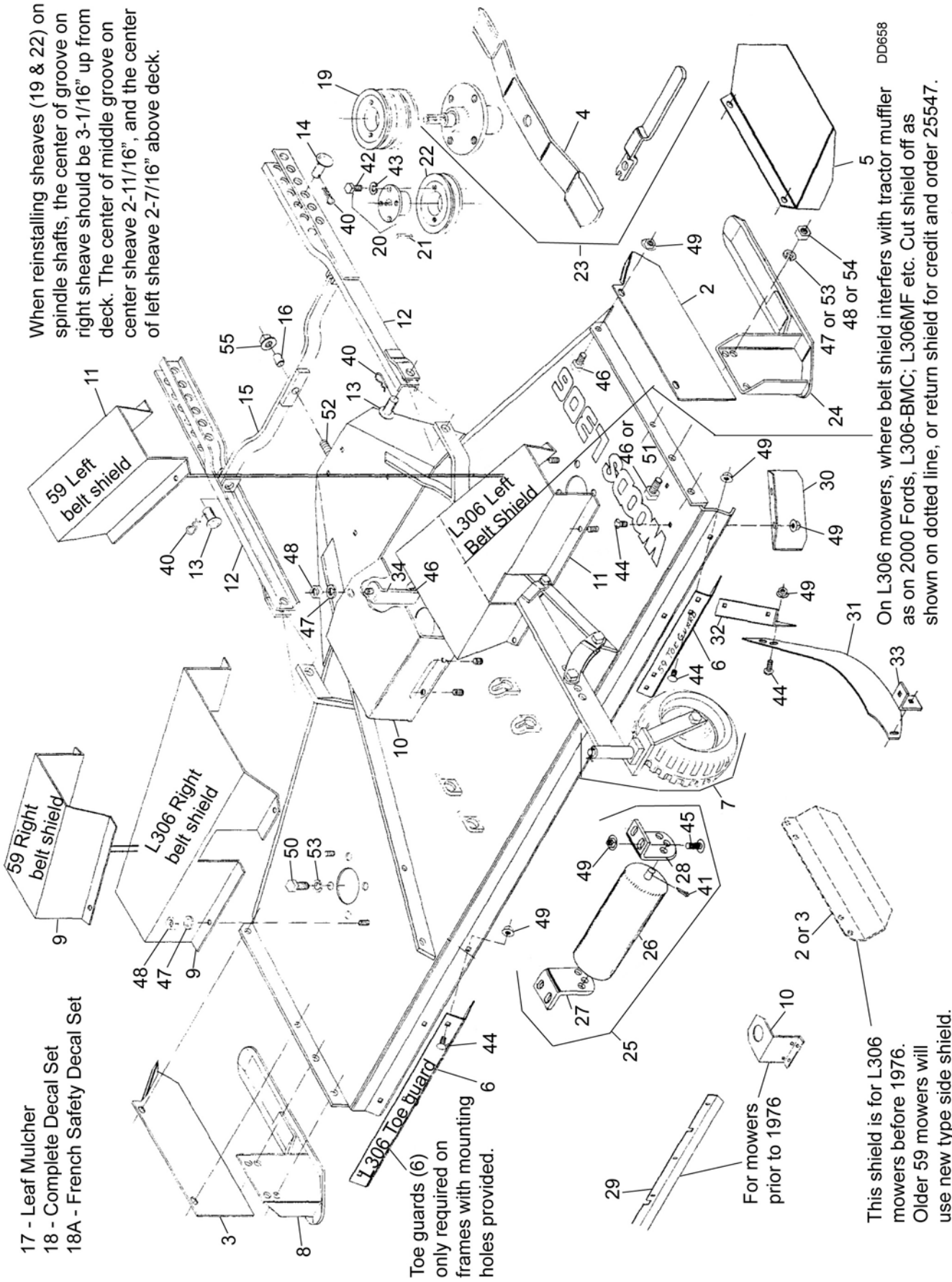
* Standard hardware, obtain locally

Operation

To do a satisfactory job of leaf mulching, the mower should be adjusted so blades are about 1-1/2" above ground and the back of the mower slightly lower than the front. The mower should be run at full RPM with tractor in first or second gear.



59, L59 & L306 Mower Frame Assembly



When reinstalling sheaves (19 & 22) on spindle shafts, the center of groove on right sheave should be 3-1/16" up from deck. The center of middle groove on center sheave 2-11/16", and the center of left sheave 2-7/16" above deck.

On L306 mowers, where belt shield interferes with tractor muffler as on 2000 Fords, L306-BMC; L306MF etc. Cut shield off as shown on dotted line, or return shield for credit and order 25547.

This shield is for L306 mowers before 1976. Older 59 mowers will use new type side shield.

- 17 - Leaf Mulcher
- 18 - Complete Decal Set
- 18A - French Safety Decal Set

Toe guards (6) only required on frames with mounting holes provided.

For mowers prior to 1976

59, L59, & L306 Mower Frame Assembly

| REF | Model Red & Yellow Mowers | Model L59 White Mowers | L306 Mowers 1976 & Later | L306 Mowers Prior to 1976 | QTY | DESCRIPTION |
|-----|---------------------------|------------------------|--------------------------|---------------------------|-----|-----------------------------|
| 1 | 9700 | 9701 | 9702 | 9702 | 1 | Frame only |
| 2 | 25513 | 25511 | 24189 | 13426 | 1 | Left side shield |
| 3 | 25512 | 25510 | 24188 | 13426 | 1 | Right side shield |
| 4 | 6950 | 23825 | 13404 | 13404 | 3 | Blade, medium suction (std) |
| | -or- | -or- | -or- | -or- | | |
| 4 | 26559 | 25997 | 28328 | 28328 | 3 | Blade, low suction (opt) |
| 5 | 26520 | 26521 | 26522 | ----- | 1 | Side discharge chute |

(a) For all 59, L59 models except: GM2, LB, F10, F13, F15, H284, JD85, JD95, K17, K18, K210, K260, S, S55, S-BL, TB, YM; For all L306 models except: AC54, GM2, GM4, H284, JD85, JD95, K22, K24, K210, K260 & S-BL.

(b) For use on 59, L59 models: LB, K17, K18, K210, K260, S55, S-BL, TB, YM; For use on L306 models: AC54, GM2, K22, K24, K210, K260 & S-BL.

(c) For F10, F13, F15, GM4, H284, JD85, JD95, S; See mounting frame assembly drawing for items 12 & 15.

| REF | 59 & L59 3-Spindle 5' Swath | L306 3-Spindle 6' Swath | QTY | DESCRIPTION |
|-----|-----------------------------|-------------------------|-----|--|
| 6 | 26516 | 25623 | 2 | Front toe guard |
| 7 | ----- | ----- | 1pr | Casters (opt) (see page 19 & page 20) |
| 8 | 4141 | 13428 | 1 | Right side skid |
| 9 | 25506 | 25528 | 1 | Right belt shield |
| 10 | 25555 | 25555 | 1 | Center belt shield (use when front of mower is bent down) |
| | | | | -or- |
| 10 | 4130 | 4130 | 1 | Center belt shield (use when front shield is bolted on mower) |
| 11 | 25507 | 25529 | 1 | Left belt shield -or- |
| 11 | ----- | 25547 | 1 | L306 Left belt shield, short |
| 12 | 13314 | 23942 | 2 | Channel arms (see a & b) |
| | | | | -or- |
| 12 | 18241 | 23928 | 2 | Channel arms (see b & c) |
| 13 | 4097 | 4097 | 4 | 5/8 x 1-1/2 Clevis pin |
| 14 | 410 | 410 | 2 | 5/8 x 1-3/4 Clevis pin |
| 15 | 3485 | 3485 | 1 | Crosswise rear support (see a & c) -or- |
| 15 | 18245 | 18245 | 1 | Crosswise rear support (see b & c) |
| 16 | 3504 | 3504 | 1 | 1/2 x 5/8 x 1-1/16 Sleeve, HT |
| 17 | ----- | ----- | 1 | Leaf mulcher (opt)(see page 21) |
| 18 | 5753 | 13421 | 1 | Complete decal set -or- |
| 18 | 52311 | 52311 | 1 | French safety decal set |
| 19 | 6126 | 13417 | 1 | Sheave (3-groove) |
| 20 | 4227 | 4227 | 3 | H3/4 St bushing with bolts |
| 21 | 3885 | 3885 | * 3 | 3/16 x 3/16 x 1-1/4 Key |
| 22 | 4226 | 12622 | 2 | Sheave (single-groove) |
| 23 | ----- | ----- | 3 | Spindle, blade & wrench kit (white, left-hand blade rotation) (see page 18) -or- |
| 23 | ----- | ----- | 3 | Spindle, blade & wrench kit (red or yellow, right hand blade rotation) (see page 18) |

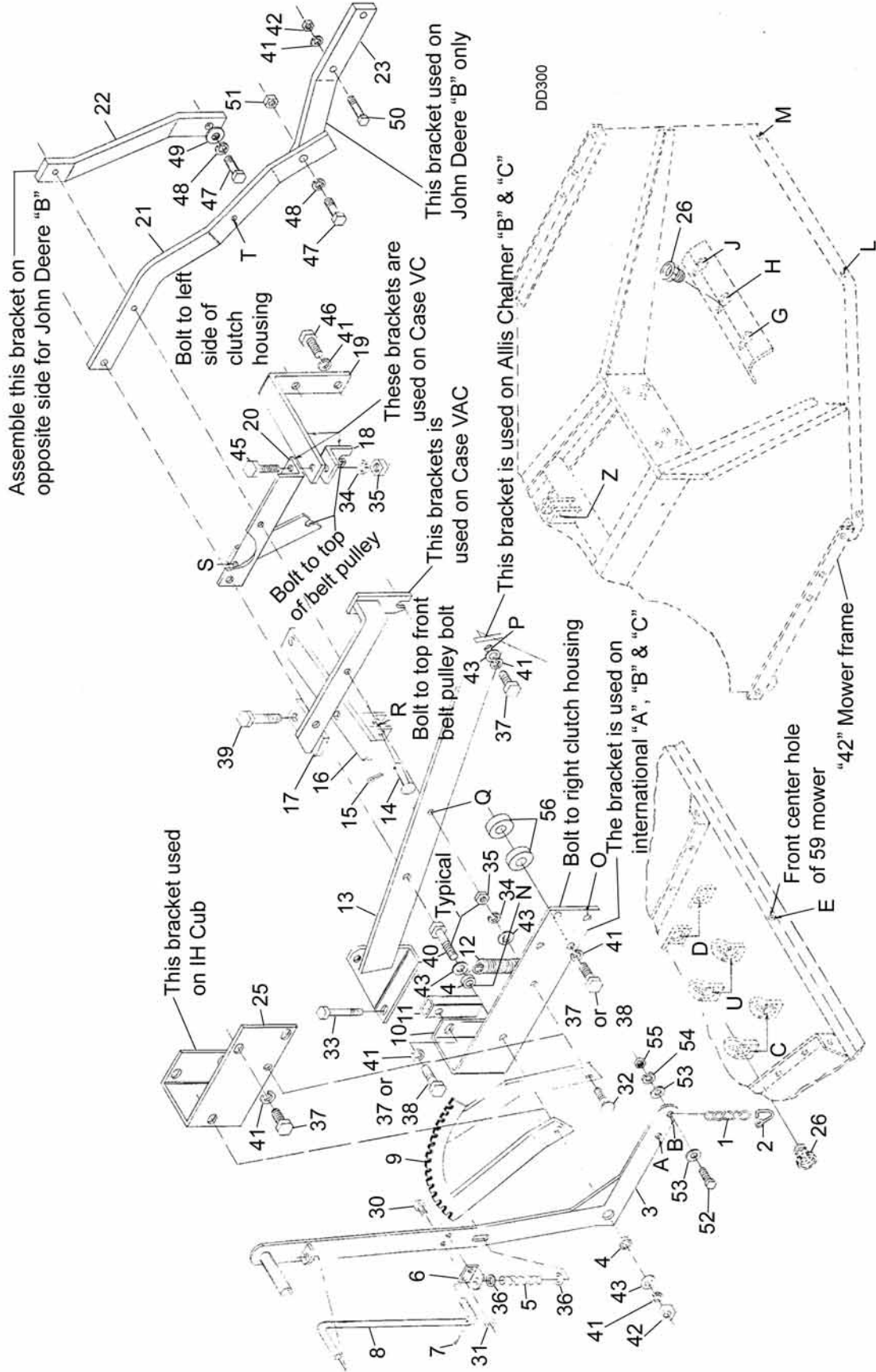
| REF | 59 & L59 3-Spindle 5' Swath | L306 3-Spindle 6' Swath | QTY | DESCRIPTION |
|-----|-----------------------------|-------------------------|-----|---|
| 24 | 4142 | 13429 | 1 | Left side skid |
| 25 | 24650 | 24650 | 1 | Front roller complete (opt) |
| 26 | 24583 | 24583 | 1 | Front roller, bearing & rod |
| 27 | 24587 | 24587 | 1 | Left front roller bracket |
| 28 | 24586 | 24586 | 1 | Right front roller bracket |
| 29 | 5818 | ----- | 1 | Front shield (for mowers prior to 1976) |
| 30 | 25508 | ----- | † 1 | Front corner baffle |
| 31 | 25509 | 25533 | 1 | Center baffle |
| 32 | 25532 | 25532 | 1 | Rear mounting angle |
| 33 | 25531 | 25530 | 1 | Front mounting lug |
| 34 | 25557 | 25557 | 1 | Center belt shield bracket |

| REF | PART | DESCRIPTION |
|-----|-------|-------------------------------|
| 40 | 2688 | * 1/8 Safety pin |
| 41 | 1256 | * 3/16 x 1 Cotter pin |
| 42 | 10378 | * 1/4 NC x 1 HHCS GR5 |
| 43 | 1985 | * 1/4 Standard lock washer |
| 44 | 24597 | * 3/8 NC x 3/4 Carriage bolt |
| 45 | 6697 | * 3/8 NC x 1 Carriage bolt |
| 46 | 839 | * 3/8 NC x 1 HHCS GR5 |
| 47 | 838 | * 3/8 Standard lock washer |
| 48 | 835 | * 3/8 NC Hex nut, plated |
| 49 | 14350 | 3/8 NC Flange hex lock nut |
| 50 | 4119 | 1/2 NF x 1 HHCS GR5 |
| 51 | 6100 | * 1/2 NC x 1-1/4 HHCS GR5 |
| 52 | 3699 | * 1/2 NC x 2 HHCS GR5 |
| 53 | 855 | * 1/2 Extra-heavy lock washer |
| 54 | 1093 | 1/2 NC Heavy hex nut |
| 55 | 11900 | 1/2 NC Flange hex lock nut |

* Standard hardware, obtain locally

† For mowers sold after 1976. Mower frame will have front of mower formed down. Before this time, mower had a bolt-on front shield.

Manual Height Adjustment



Manual Height Adjustment

| REF | PART | QTY | DESCRIPTION | REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|---|-----|-------|-----|---|
| 1 | ----- | - | Chain (see chart for chain used on your mounting) | 25 | 17410 | 1 | IH Cub manual lift mounting plate |
| 2 | 4155 | 2-3 | 1/4 Cold shut repair link | 26 | 18336 | 2 | Caplug, 1-1/16 - 121D SAE thread |
| 3 | 10693 | 1 | Manual height adjustment lever assembly | 30 | 2457 | * | 1/4 NC x 3/4 HHCS GR5 |
| 4 | 484 | 1-2 | 5/8 x 1 x 7/16 HT Sleeve | 31 | 6128 | * | 1/4 NC Hex lock nut |
| 5 | 10706 | 1 | 3-3/8 Long compression spring | 32 | 12735 | * | 1/2 NC x 1-3/4 Carriage bolt GR5 -or- |
| 6 | 10701 | 1 | Manual height adjustment clip | 32 | 10284 | * | 1/2 NC x 2 Carriage bolt |
| 7 | 3597 | * 1 | 1/8 x 1 Cotter pin | 33 | 3489 | * | 1/2 NC x 3 HHCS GR5 |
| 8 | 10699 | 1 | Manual height adjustment rod | 34 | 855 | * | 1/2 Extra-heavy lock washer |
| 9 | 10702 | 1 | Manual lift sector assembly | 35 | 1093 | * | 1/2 NC Heavy hex nut GR5 |
| 10 | 9045 NS | 1 | IHC Manual lift attachment plate (includes hardware & spacer) | 36 | 3598 | * | 1/2 SAE Flat washer |
| 11 | 10708 | 1 | IHC Manual height adjustment spacer (used on IHC "B" & "C") | 37 | 6268 | * | 5/8 NC x 1-1/4 HHCS GR5 |
| 12 | 10707 | 1 | 8-1/8 Long extension spring (used on 42's & 59's) -or- | 38 | 12274 | * | 5/8 NC x 2-1/4 HHCS GR5 |
| 12 | 13006 | 1 | 13-1/4 Long extension spring (used on L306's) | 39 | 11854 | * | 5/8 NC x 2-1/2 HHCS GR8 |
| 13 | 10750 | 1 | Allis Chalmers "B" & "C" lift mounting frame assembly | 40 | 986 | * | 5/8 x 2-3/4 HHCS GR5 |
| 14 | 409 | 1 | 1/2 x 2 Clevis pin | 41 | 1286 | * | 5/8 Heavy lock washer |
| 15 | 1256 | * 1 | 3/16 x 1 Cotter pin | 42 | 230 | * | 5/8 NC Hex nut |
| 16 | 10735 | 1 | Lift attachment assembly | 43 | 692 | * | 5/8 Standard flat washer |
| 17 | 9046 | 1 | Case VAC manual lift mounting | 45 | 24576 | * | 1/2 NC x 1-3/4 HHCS GR5 |
| 18 | ----- | 1 | Case VC lift mounting lug (no longer available) | 46 | 7832 | * | 5/8 NC x 1-1/2 HHCS GR5 |
| 19 | ----- | 1 | Case VC manual lift bracket (no longer available) | 47 | 4616 | * | 3/4 NC x 1-1/2 HHCS GR5 |
| 20 | ----- | 1 | Case VC manual lift weldment (no longer available) | 48 | 2522 | * | 3/4 Standard lock washer |
| 21 | 11445 | 1 | Manual lift radius bracket | 49 | 1257 | * | 3/4 Standard flat washer |
| 22 | 11446 | 1 | Manual lift bar | 50 | 902 | * | 5/8 NC x 2 HHCS GR5 |
| 23 | 11489 | 1 | John Deere "B" offset manual lift brace | 51 | 1450 | * | 3/4 NC Hex nut |
| 24 | 13450 | 1 | 1/4 Keystone connecting link | 52 | 3231 | * | 3/8 NC x 2 HHCS GR5 |
| | | | | 53 | 565 | * | 3/8 Standard flat washer |
| | | | | 54 | 838 | * | 3/8 Standard lock washer |
| | | | | 55 | 835 | * | 3/8 NC Hex nut, plated |
| | | | | 56 | 25728 | | 5/8 x 2 x 1/2 Flat washer (for IH "B" only) |
| | | | | | | * | Obtain locally |

Lift Chain Hook-Up Table

| Mower Model Number | Chains Used | | | Lift Chain Attach Plt | | Holes Used for Spring | | Special Notes |
|---------------------|----------------|---------|--------------------------------|-----------------------|-------------------|-----------------------------|------------------------------|--------------------------------|
| | Part No | No Used | Description | To Lift Lever Hole | To Holes in Mower | Upper End to Hole Lettered: | Lower End to Hole Lettered: | |
| 42A, HB | 4154 | 1 | 33 Link Chain | B | H&G | O | See note 4 | (10) |
| L42AC, B&C | 4154 | 1 | 33 Link Chain | B | G | P | H | (5) |
| 42C | 4154 | 1 | 33 Link Chain | B | L&M | See note (8) | Z | (8) |
| L42U | 17477 | 1 | 84" Twisted cut off excess | B | H | T | H | |
| L42VAC | 6673 | 1 | 78" Twisted | B | H | R | J | |
| L42VC | 4154 | 1 | 33 Link Chain | B | G | S | J | |
| L59A, 59HB, & L306A | 4154 18264 | 1 1 | 33 Link Chain 13 Link Chain | A or B Opt | E E | N N | C&D C&D | (1, 3, 8, 10) (1, 3, 8, 10) |
| 59HC | 18264 | 3 | 13 Link Chain | A or B Opt | E | N | C&D | (1, 3, 8, 9) |
| L59AC, B&C | 4154 | 1 | 33 Link Chain | A | C&D | Q | E | (5) |
| L306AC, B&C | 18264 | 1 | 13 Link Chain | A | C&D | Q | E | (5) |
| 59C | 4154 | 2 | 33 Link Chain | A | C&D | See note (8) | See note (1,3) | (8) |
| L59U, L306U | 17477 18264 | 1 1 | 84" Twisted 13 Link Chain | B B | C&D C&D | T T | See note (3) See note (3) | (1) (7) |
| L59VAC, L306VAC | 17477 | 1 | 84" Twisted | B B | E U | R R | E E | (7) |
| L59VC, L306VC | 4154 18264 | 1 1 | 33 Link Chain 13 Link Chain | B B | E U | S S | C&D C&D | (1, 3, 8) (7) |

Special Notes (Refer to numbers in parentheses in above table)

1. Hook one 13-link chain between holes "C" & "D".
2. Fasten one 10-link and one 7-link chain together.
3. Hook lower end of spring in crotch chain.
4. Hook spring into chain just above hole "H".
5. Clamp offset end spring under flat washer on out-of-way side of bracket, where indicated.
6. Fasten two 10-link chains together for lift chain.
7. On L306 models, use heavy spring furnished with mower rather than lighter spring furnished with manual lift kit. Hook to a point on tractor so most of mower weight is held by spring which will allow lift to work easier.
8. Hook upper end of spring over bushing (4). Bolt lift chain to lift lever with 3/8 x 2 bolt and nut.
9. Bolt two 13-link chains together for lift chain.
10. On IH "A" lift lever (3) goes inside steering rod. On IH "B" it goes outside steering rod. For IH "B" shim attachment plate (10) out away from tractor using spacer (11), four washers (56) and bolts (38). Lift lever may have to be bent out slightly to clear steering rod.

BOLT TORQUE CHART

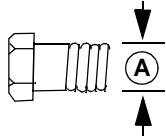
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual parts list.

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware.

Make sure fastener threads are clean and you start thread engagement properly.

All torque values are given to specifications used on hardware defined by SAE J1701 MAR 99 & J1701M JUL 96.



SAE SERIES TORQUE CHART



SAE Grade 2
(No Dashes)

SAE Bolt Head Identification

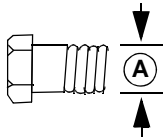


SAE Grade 5
(3 Radial Dashes)



SAE Grade 8
(6 Radial Dashes)

| Ⓐ Diameter (Inches) | Wrench Size | MARKING ON HEAD | | | | | |
|---------------------------|----------------|-----------------|-----|--------|-----|--------|------|
| | | SAE 2 | | SAE 5 | | SAE 8 | |
| | | lbs-ft | N-m | lbs-ft | N-m | lbs-ft | N-m |
| 1/4" | 7/16" | 6 | 8 | 10 | 13 | 14 | 18 |
| 5/16" | 1/2" | 12 | 17 | 19 | 26 | 27 | 37 |
| 3/8" | 9/16" | 23 | 31 | 35 | 47 | 49 | 67 |
| 7/16" | 5/8" | 36 | 48 | 55 | 75 | 78 | 106 |
| 1/2" | 3/4" | 55 | 75 | 85 | 115 | 120 | 163 |
| 9/16" | 13/16" | 78 | 106 | 121 | 164 | 171 | 232 |
| 5/8" | 15/16" | 110 | 149 | 170 | 230 | 240 | 325 |
| 3/4" | 1-1/8" | 192 | 261 | 297 | 403 | 420 | 569 |
| 7/8" | 1-5/16" | 306 | 416 | 474 | 642 | 669 | 907 |
| 1" | 1-1/2" | 467 | 634 | 722 | 979 | 1020 | 1383 |



METRIC SERIES TORQUE CHART



8.8
Metric
Grade 8.8

Metric Bolt Head Identification

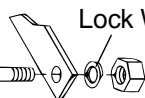


10.9
Metric
Grade 10.9

| Ⓐ Diameter & Thread Pitch (Millimeters) | Wrench Size | COARSE THREAD | | | | FINE THREAD | | | | Ⓐ Diameter & Thread Pitch (Millimeters) |
|--|----------------|-----------------|--------|-------------|--------|-------------|--------|-------------|--------|--|
| | | MARKING ON HEAD | | | | | | | | |
| | | Metric 8.8 | | Metric 10.9 | | Metric 8.8 | | Metric 10.9 | | |
| | | N-m | lbs-ft | N-m | lbs-ft | N-m | lbs-ft | N-m | lbs-ft | |
| 6 x 1.0 | 10 mm | 8 | 6 | 11 | 8 | 8 | 6 | 11 | 8 | 6 x 1.0 |
| 8 x 1.25 | 13 mm | 20 | 15 | 27 | 20 | 21 | 16 | 29 | 22 | 8 x 1.0 |
| 10 x 1.5 | 16 mm | 39 | 29 | 54 | 40 | 41 | 30 | 57 | 42 | 10 x 1.25 |
| 12 x 1.75 | 18 mm | 68 | 50 | 94 | 70 | 75 | 55 | 103 | 76 | 12 x 1.25 |
| 14 x 2.0 | 21 mm | 109 | 80 | 151 | 111 | 118 | 87 | 163 | 120 | 14 x 1.5 |
| 16 x 2.0 | 24 mm | 169 | 125 | 234 | 173 | 181 | 133 | 250 | 184 | 16 x 1.5 |
| 18 x 2.5 | 27 mm | 234 | 172 | 323 | 239 | 263 | 194 | 363 | 268 | 18 x 1.5 |
| 20 x 2.5 | 30 mm | 330 | 244 | 457 | 337 | 367 | 270 | 507 | 374 | 20 x 1.5 |
| 22 x 2.5 | 34 mm | 451 | 332 | 623 | 460 | 495 | 365 | 684 | 505 | 22 x 1.5 |
| 24 x 3.0 | 36 mm | 571 | 421 | 790 | 583 | 623 | 459 | 861 | 635 | 24 x 2.0 |
| 30 x 3.0 | 46 mm | 1175 | 867 | 1626 | 1199 | 1258 | 928 | 1740 | 1283 | 30 x 2.0 |

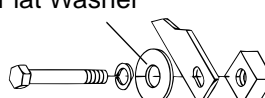
Typical Washer Installations

Bolt



Lock Washer

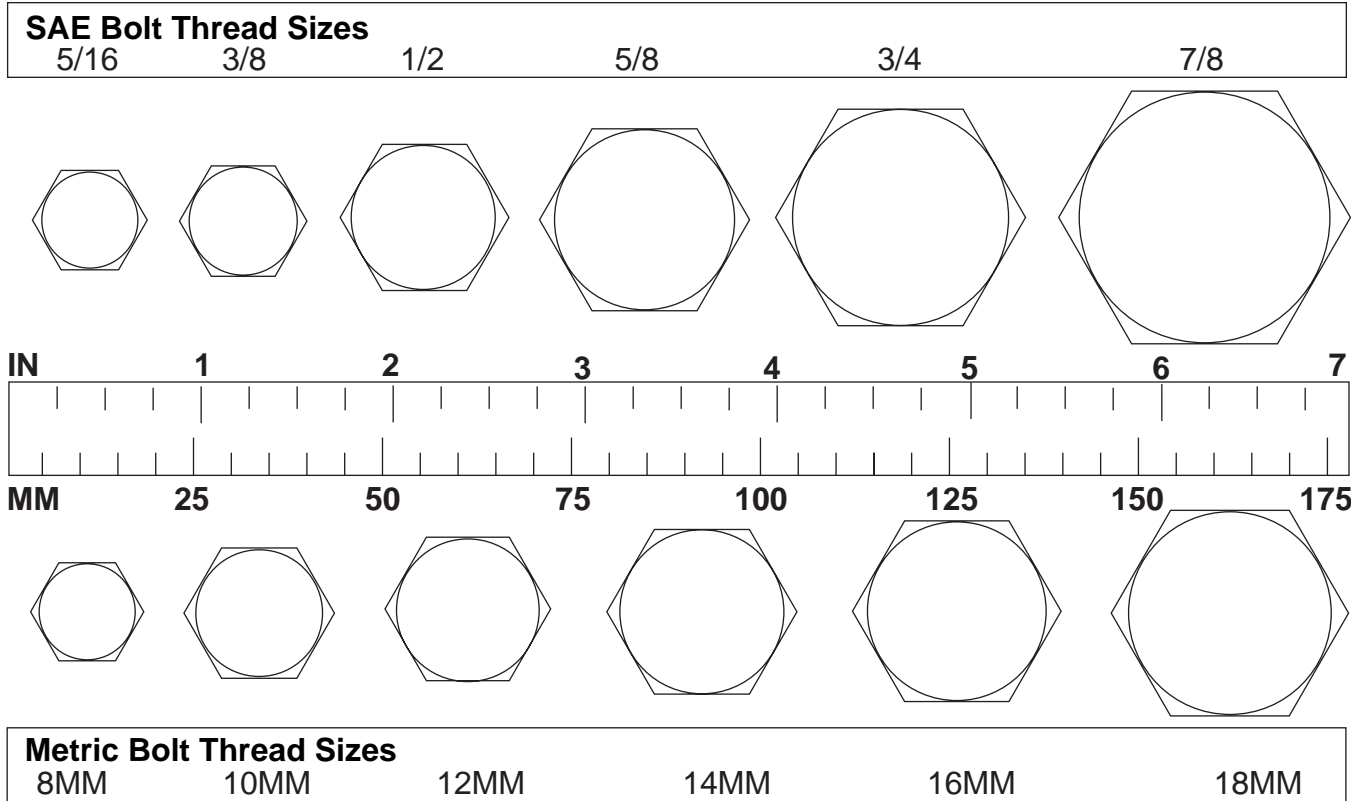
Flat Washer



8/9/00

BOLT SIZE CHART

NOTE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and metric bolts.



ABBREVIATIONS

AG Agriculture
 ASABE American Society of Agricultural & Biological Engineers (formerly ASAE)
 ASAE..... American Society of Agricultural Engineers
 ATF.....Automatic Transmission Fluid
 BSPP..... British Standard Pipe Parallel
 BSPTM..... British Standard Pipe Tapered Male
 CV Constant Velocity
 CCW..... Counter-Clockwise
 CW Clockwise
 F Female
 FT..... Full Thread
 GA Gauge
 GR (5, etc.)..... Grade (5, etc.)
 HHCS Hex Head Cap Screw
 HT Heat-Treated
 JIC..... Joint Industry Council 37° Degree Flare
 LH..... Left Hand
 LT Left
 m Meter
 mm Millimeter
 M Male

MPa Mega Pascal
 N Newton
 NC..... National Coarse
 NF National Fine
 NPSM National Pipe Straight Mechanical
 NPT.....National Pipe Tapered
 NPT SWF..... National Pipe Tapered Swivel Female
 ORBM O-Ring Boss - Male
 P Pitch
 PBY.....Power-Beyond
 psi Pounds per Square Inch
 PTO.....Power Take Off
 QD Quick Disconnect
 RH..... Right Hand
 ROPS..... Roll-Over Protective Structure
 RPM.....Revolutions Per Minute
 RT Right
 SAE..... Society of Automotive Engineers
 UNC Unified Coarse
 UNF Unified Fine
 UNS Unified Special

WARRANTY

(All Models Except Mow'n Machine™ Zero-Turn Mowers and Woods Boundary™ Utility Vehicles)

Please Enter Information Below and Save for Future Reference.

Date Purchased: _____ From (Dealer): _____
 Model Number: _____ Serial Number: _____

Woods Equipment Company ("WOODS") warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

Woods backhoe models BH70-X, BH80-X, and BH90-X are warranted for two (2) years from the date of delivery to the original purchaser.

The warranty periods for specific parts or conditions are listed below:

| Part or Condition Warranted | Model Number | Duration (from date of delivery to the original purchaser) |
|-----------------------------|---|---|
| Gearbox components | BW1260, BW1800 | 8 years |
| | BB48X, BB60X, BB72X, BB84X, BB600X, BB720X, BB840X, BB6000X, BB7200X, BB8400X, DS1260, DSO1260, DS1440, TS1680, BW126-2, BW180-2 | 6 years |
| | PHD25, PHD35, PHD65, PHD95, 2162, 3240, DS96, DS120, RCC42, RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2, S15CD, S20CD, S22CD, S25CD, S27CD | 5 years |
| | RDC54, RD60, RD72 | 3 years (1 year if used in rental or commercial applications) |
| Blade spindles | RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2 | 3 years |
| Rust-through | BB600, BB720, BB840, BB6000, BB7200, BB8400, BW126-2, BW180-2, BW1260, BW1800, 2162, 3240, DS1260, DSO1260, DS1440, TS1680 | 10 years |

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than WOODS, a WOODS authorized dealer or distributor, and/or a WOODS authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through WOODS.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by WOODS. Warranties for these items, if any, are provided separately by their respective manufacturers.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. **THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.**

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. WOODS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND WOODS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

WOODS shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, Woods specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

Woods Equipment Company

2606 South Illinois Route 2
 Post Office Box 1000
 Oregon, Illinois 61061

800-319-6637 tel
 800-399-6637 fax
 www.WoodsEquipment.com



- ALITEC™**
- BMP®**
- CENTRAL FABRICATORS®**
- GANNON®**
- GILL®**
- WAIN-ROY®**
- WOODS®**



WARRANTY

(Replacement Parts For All Models Except Mow'n Machine™
Zero-Turn Mowers and Woods Boundary™ Utility Vehicles)

Woods Equipment Company ("WOODS") warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser with the exception of V-belts, which will be free of defect in material and workmanship for a period of 12 months.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

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